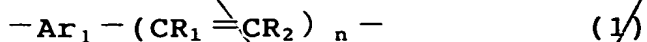
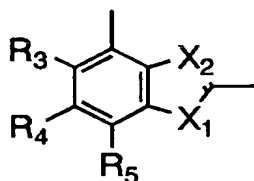


What is claimed is:

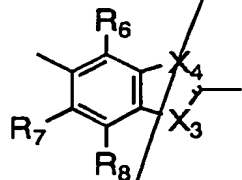
1. A polymeric fluorescent substance exhibiting fluorescence in the solid state, having a polystyrene reduced number-average molecular weight of 1×10^3 to 1×10^8 , and comprising one or more repeating units of formula (1) and one or more repeating units of formula (8),



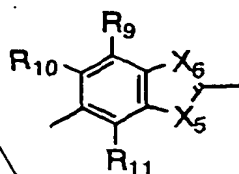
in the formula, Ar_1 is a divalent group represented by the following formulae (2) to (7); R_1 and R_2 each independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups, monovalent heterocyclic compound groups and cyano group; and n is 0 or 1,



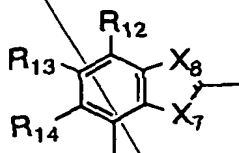
(2)



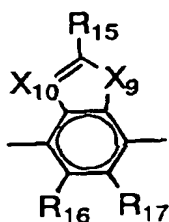
(3)



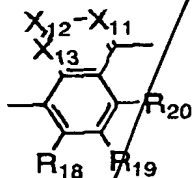
(4)



(5)



(6)

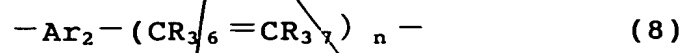


(7)

in the formulae (2) to (7), X_1, X_3, X_5, X_7 and X_9 each independently represent a group selected from $-CR_{21}=CR_{22}-$, $-CR_{23}=N-$, $-N=CR_{24}-$, $-O-CO-$, $-CR_{25}R_{26}-$, $-CO$, $-O-$, $-S-$, $-Se-$, $-NR_{27}-$ and $-SiR_{28}R_{29}-$; X_2, X_4, X_6, X_8 and X_{10} each independently represent a group selected from $-CR_{30}=$ and $-N=$; R_3 to R_{30} each independently represent a hydrogen atom or a substituent selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, aryl group, aryloxy group, arylsilyl group, arylaminogroup,

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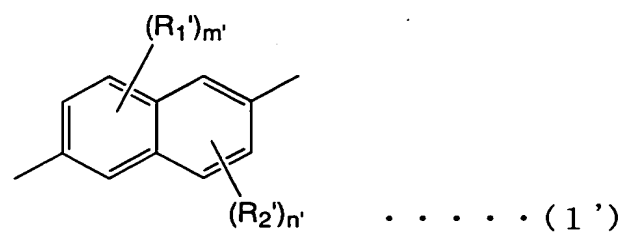
arylalkyl group, arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenylgroup, arylalkinylgroup, monovalent heterocyclic compound group and cyano group; at least one of R_3 to R_{30} is not a hydrogen atom,



in the formula, Ar_2 represents an arylene group or divalent heterocyclic compound group, but the group is not represented by any of formulae (2) to (7); Ar_2 may have one or more substituents; when Ar_2 has a plurality of substituents, they may be the same or different; R_{36} and R_{37} each independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups, monovalent heterocyclic compound groups and a cyano group; and n represents 0 or 1.

2. The polymeric fluorescent substance according to Claim 1 wherein Ar_1 in formula (1) has one or more substituents selected from an aryl group and a monovalent heterocyclic compound group.

3. The polymeric fluorescent substance according to Claim 1 or 2 wherein Ar_1 in formula (1) is represented by formula (1'),



in the formula, R_1' and R_2' represent each independently a group

integers of 0-3 each independently; when k' is two or more, a plurality of R_5' may be the same or different; when l' is two or more, plurality of R_6' may be the same or different; $R_3' - R_6'$ may be connected to form a ring.

5. The polymeric fluorescent substance according to Claim 1 or 2 wherein Ar_1 in formula (1) is represented by formula (1'), and Ar_2 of formula (8) is represented by formula (2').

6. The polymeric fluorescent substance according to Claim 1 or 2 wherein the total amount of repeating units represented by formulae (1) and (8) is 50 mol% or more based on the total amount of all repeating units, and the amount of repeating units represented by formula (1) is 0.1 mol% or more and 95 mol% or less based on the total amount of the repeating units represented by formulae (1) and (8).

7. The polymeric fluorescent substance according to Claim 1 or 2 wherein the total amount of repeating units represented by formulae (1) and (8) is 50 mol% or more based on the total amount of all repeating units, and the amount of repeating units represented by the formula (1) is 5 mol% or more and 95 mol% or less based on the total amount of the repeating units represented by the formulae (1) and (8).

8. A polymer light emitting device comprising at least a light emitting layer between a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semi-transparent wherein the light emitting layer comprises

a polymeric fluorescent substance according to Claim 1 or 2.

9. The polymer light emitting device according to Claim 8, further comprising a layer comprising a conducting polymer disposed between one electrode and the light emitting layer such that the layer containing an conducting polymer is adjacent to said electrode.

10. The polymer light emitting device according to Claim 8, further comprising an insulation layer having a thickness of 2 nm or less disposed between one electrode and the light emitting layer such that the insulation layer is adjacent to said electrode.

11. The polymer light emitting device according to any one of Claims 8 to 10, further comprising a layer comprising an electron transporting compound disposed between the cathode and the light emitting layer such that the layer comprising an electron transporting compound is adjacent to said light emitting layer.

12. The polymer light emitting device according to any one of Claims 8 to 10, further comprising a layer comprising a hole transporting compound disposed between the anode and the light emitting layer such that the layer comprising a hole transporting compound is adjacent to said light emitting layer.

13. The polymer light emitting device according to any one of Claims 8 to 10, further comprising a layer comprising an electron transporting compound and a layer comprising a hole

transporting compound disposed between the cathode and the light emitting layer such that the layer comprising an electron transporting compound is adjacent to said light emitting layer, and the layer comprising a hole transporting compound is adjacent to said light emitting layer.

14. A flat light source comprising the polymer light emitting device of any one of Claims 8 to 10.

15. A segment display comprising the polymer light emitting device of any one of Claims 8 to 10.

16. A dot matrix display comprising the polymer light emitting device of any one of Claims 8 to 10.

17. A liquid crystal display comprising the polymer light emitting device of any one of Claims 8 to 10 as a back-light.

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